Mother Earth's Age---Government Sends Committee of

BY JOHN ELFRETH WATKINS.

"How old are you, madain?" Silence on the part of the woman-ic same old impenetrable, sphinx-like

the same old impenetrable, sphinx-like silence.
While the census man has been enecting this little scene with thousands of her American daughters, a learned committee of government savants have been repeating it with old Mother Earth herself, but, unhapplity, they have not had the law on their side to make the old dame answer up or go to jall. Instead, they have had to gauge her years by examining anew her timeworn teeth, by measuring the depth of her wrinkles, by analyzing the fiuld of her arteries. Thus they have revised all previous estimates of her span of life.

all previous estimates of her span of life.

They say that she is about twice as old as Lord Kelvin found her when he last looked her over, a baker's dozen of years ago, but not nearly so aged as the great Darwin thoughe her.

"Not above 70,000,000 nor below 55,000,030 years," is their verdict, and how are you going to contradict them?

They are two of the government's most learned scientists—Professor Frank Wigglesworth Clarke, chief chemist of the United States Geological Survey, and Dr. George' B. Becker, geologist, of the same institution. Both are men of international reputation, Professor Clarke being a chevalier of the Legion of Honor, a medalist and member of learned societies abroad, and Dr. Becker a Ph. D. of Heidelberg, who has toured the world, examining the diamond fields of South Africa, hiking with our soldiers in the tropical jungles to study the mineral resources of the Philippines, and viewing Mother Earth from every quarter of the compass.

What the Old Theologians Found.

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What the Old Theologians Found. What the Old Theologians Found.

The old theologians told man that his planet was 6,000 years old, and they reckoned it from the lives of the patriarchs. Look in your Bible to-day and you will probably find the creation of the world dated at 4,000 B. C., this on the authority of the Roman abbot, Dennis the Less, or of James Usher, the Anglican archbishop. But these scientists say that our footstool is 10,000 fimes as old as the theologians taught—that earth became earth some 30,000 times as far back as the time of Jesus of Nazareth. But how do they estimate it?

There have been many methods used in the past for solving the vexed problem. I once read that theological eliterature preserves 132 different schemes for estimating the age of the earth at the time of the birth of Lesses Doubt the content of the content of the part of the carth at the time of the birth of Lesses Doubt the search as the content of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of Lesses Doubt the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the time of the birth of the carth at the care of the carth a

schemes for estimating the age of the carth at the time of the birth of Jesus. Doubtless there have been many more methods devised by scientists, since a generation ago, when they began to burn the midnight oil over the matter, and to sew seeds of doubt in the minds of the good people who implicitly believed that the deluge took place 2,000 years after the creation, and that Christ was born

he creation, and that Christ was born ,000 years after the deluge. How They Did It.

Now this is the method by which Clarke and Becker make their new calculation: They estimate the rate at which the earth's sufface matter is being worn away by rain, rivers, frost, ice and winds, and with this factor figure out how long it has taken those forces to leave our globe in its present condition. Some years ago Sir Archibaid Gelkle calculated that at their present rate of wearing away from the natural agencies the British Isles would be leveled down to the surface of the sea in about 550, 900,000 years and by a reversal of his process the American scientists come to their conclusions.

Professor Clarke estimates that about £,000,000,000,000 tons of the surface matter of the entire courte and the conclusions.

and blown inland, part of it returning sgain into the ocean and part of it being retained by the soil. He also goes so far as to account for the amount of salt washed into the ocean in the sewage of cities, the refuse of chemical manufactures, etc.—over 13,000,000 tons per year, estimated in terms of common salt.

A Bridge of Salt to the Moon.

A total amount of salty matter in the ocean, he says, would, if concentrated, measure 4,800,000 cubic miles. In other words, you could manufacture out of ocean water enough of this salty matter to build a bridge to the moon one mile wide by twenty milos high. If you set these big cubes in rows they would form about the equator a band one mile high and 200 miles wide! Another step is to estimate the total amount of rock in the earth's crust, which has been needed to thus salt the ocean, and another is to figure out the time required to wash the netire accumulation into the ocean.

Our land surface is wearing down

wash the netire accuming down ocean.

Our land surface is wearing down at the rate of 1 foot in 24,000 years, he finds, while Europe suffers the same damage in 18,900 years, and South America an equal amount in 37,750 years. The average rate at which the earth's land area as a whole is being layeled off he calculates as 1 foot in

years. The average rate at which the earth's land area as a whole is being leveled off he calculates as I foot in 27,660 years.

Testimony of a Mollingo.

Dr Becker in his part of the calculation measures earth's age both by the rate at which sodium has accumulated in the ocean and by the rate of the earth's cooling. He assumes the earth to have been haif of its present age at the time of the dawn of what geologists call the Cambrian period. Inasmuch as these deposits contain fossils of some little molluses still found in the ocean to-day—notably the barnacle-like "tongue shells"—he believes that back in those ages sea water was practically the same as it is to-day, and he thinks it improbable that any now-fallen continents ever bridged the present ocean bottoms. He also disagrees with the scientists of the heat emitted by the earth to be due to radium and such radio active bodies. Less than a tenth issues from that source, in his opinion, nine-tenths being due to compression of the earth's crust. And, finally, an the basis of his calculations and Professor Clarke's, the final verdict is that Mother Earth must own up to between 55,000,000 and 79,000,000 years, if she sever speaks the truth.

Lord Kelvia Surrendered to Yankees.

This estimate agrees very nearly.

Learned Scientists to Investigate -- Passed Its Youth



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Suppers Popular.
[Special to The Times-Dispatch,]
Yellow Sulphur Springs, Va., Septem (Special to The Times-Dispatch.)
Yellow Sulphur Springs, Va., September 3.—With cheery fires in the parlors and writing rooms, made necessary by the crispness of these early autumn days here in the Virginia mountains, the opportunity of becoming better acquainted with one's friends and the delight of daily walks over the hills, already taking on the colors of late blooming flowers and goldenrod, the mere pleasure of being at the Yellow Sulphur is appreciated by the guests. And before merry companies of friends scatter to their homes in various parts of this and other States, there must be one more game of bridge, another test of skill at bowling, and every night charing dishes are brought into requisition, for an informal supper party, and to drink one more toast to those who soon shall part, taking with them pleasant recollections of a successful season.

pleasant recollections of a successful season.

As a compliment to her friend, Mrs. J. E. Taylor, of Danville, wife of the resident physician this summer, and one of the most popular women of the place, Mrs. James Sutton, of Richmond, entertained at a bridge party that brought together eight tables of skiliful players. The guest of honor prize," and that for the highest number of points was won by Mrs. Charles F. Speer, of Memphis.

The latter has acquired quite a reputation here for several seasons as an accomplished bridge player and enjoys as great a one in her home city.

The afternoon hours of Monday were enlivened by a bowling harty given by Mrs. J. S. Irvine, of Danville, and some

of the scores made by the women were most creditable. The prize for the highest among the married women was won by Mrs. J. S. Perry, of Roanoke, and that for the young women by Miss Sproule, of New Orleans.

The lobby of the hotel was the scene of a subscription bridge party Tuesday morning, in which the first prize was won by Mrs. Caarles Warren, of Bacon's Castle; the second by Mrs. Thomas N. Jones, of Smithfield, and the consolation by Mrs. Sproule, of New Orleans.

On Sunday evening Rev. W. D. Moss, pastor of the Washington Heights Presbyterian Church, Washington, D. C., preached an excellent sermon that was heard with close attention by nearly all the guests.

MANY PLEASURES OFFERED TO GUESTS

Ing—Parties for the Young
People.

[Special to The Times-Dispatch.]
Sweet Chalybeate, Va., September 3,
—Numerous summer diversions entertained the gay throng assembled at the Sweet Chalybeate during the past week. At the german danced on Thursday evening, the women, in beautiful costumes, moving through the intricate figures, made a kaleideoscope scene of rainbow coloring that was Ideal. Dancing with the leader, Colonel W. W. Old. of Norfolk, was Miss Charlotte Pleasants, of Wilmington, N. C. The chaperons who graced the occasion were Mrs. W. W. Old, Mrs. J. W. Montague, Mrs. W. A. Godwin, Mrs. T. A. Jones and Mrs. R. F. Baldwin, Norfolk; Mrs. Blair Burwell, Mrs. Lawrence Haynes, Mrs. L.Z. Baya and Mrs. T. B. Living. Ston, of Jacksonville, Fla.; Mrs. T. F. Schley, Lynchburg; Mrs. Stuart Baldwin, Chicago; Mrs. John Moody, Atlanta, Ga.; Mrs. L. B. Blackmer, Rochester, N. Y.; Mrs. David Rice, Mrs. B. B. Rice, Mrs. T. A. Gargill and Mrs. J. W. Evans, Houston, Texas; Mrs. Thomas A. Barker, Louisville, Ky.; Mrs. Louis LeSassier, New Orleans, La.; Mrs. J. Barnham, Washington, D. C.; Mrs. W. A. Boykin, Baltimore, Md.; Mrs. A. W. Maupin and Mrs. G. Hatton, Portsmouth, Va.

Among the most pleasant events of

the season was a marshmallow roast given on Chestnut Hill by Joseph Budd, of Atlanta, Ga. Those invited were of Atlanta, Ga. Those invited were Misses Libbie Rice, Houston, Texas; Marie Burwell, Jacksonville, Fla.; Sue Pretiow, Franklin; Helen Phillips, Washington, D. C.; Christine Rogers, Aberdeen, Miss.; Mary Helen Moody, Atlanta, Ga.; Brown Rice, Houston, Texas; Brad Tazewell, Norfolk; M. Lloyd and E. Brook Eakle.

Little Kitty Baldwin, of Norfolk, entertained her friends on her fifth hirthday, and another occasion of joy to the children was a party given them on the lawn by the Misses Helen and Charlotte Pleasants, of Wilmington, N. C.

Mrs. L. B. Blackmer, of Rochester, N. Y., gave a farewell entertainment to a number of her friends, and Miss Bettie Poindexter, of Norfolk, also gave

a tea.
Mrs. Bernard Smith and T. A. Jones,
of Norfolk, delightfully entertained at
bridge.
Bishop Tucker and Rev. G. F. Regers, while here, held services in the
Douglas Memorial Chapel, within the

Miss Eleanor Donaghy, of New York City.

After the dancing was over a banquet was given in the beautiful hotel dining room by J. W. Rowland. Plates were laid for thirty couples. Mr. Rowland was toastmaster, and called upon a number of guests present, who responded cleverly. A number of Kappa Alpha men came down from Washington, men from the V. M. I.; also a number from Staunton were present.

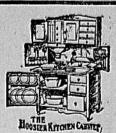
Several very delightful bridge parties have been given during the past week, one of the most charming being that on Monday evening by Miss Betty Clarke, of Lexington.

A lawn party was given Tuesday afternoon, which was greatly enjoyed by the children of the hotel.

Hunting parties are being arranged

Hunting parties are being arranged for the next couple of weeks, and the house will be filled with a good, congenial company until the last of the month or longer.

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